

## EFFECT ON FLOOD LEVELS OF RAISING AIRPORT LEVEE

SCENARIO	Water Surface Elevation or Diff. in ft.		
	At Airport Levee	At Mellen Street	At Grand Mound
<b>100 YR Flood Event</b>			
<b>Comparison - Airport Levee to Baseline (Effect Outside Airport if entire Airport were filled)</b>			
Flood Baseline	177.92	175.15	144.06
Flood Baseline with raised Airport Levee	178.28	175.26	144.13
<b>Increase / (Decrease)</b>	<b>0.36</b>	<b>0.11</b>	<b>0.07</b>
<b>2007 Flood Event</b>			
<b>Comparison - Airport Levee to Baseline (Effect Outside Airport if entire Airport were filled)</b>			
Flood Baseline	178.91	175.81	144.29
Flood Baseline with raised Airport Levee	179.52	176.01	144.37
<b>Increase / (Decrease)</b>	<b>0.61</b>	<b>0.20</b>	<b>0.08</b>

Note: The area behind or inside the Airport Levee is 385 acres, while the area that has been filled inside the levee is approximately 60 acres. The fill to date inside the levee translates to 16% of the total area, and therefore, flood elevation increases shown above (0.2 ft or 2.4 inches) at Mellen Street would actually be less due to only 60 acres of fill.

## EFFECT ON FLOOD LEVELS OF ONE UPPER CHEHALIS RETENTION PROJECT

SCENARIO	Water Surface Elevation or Diff. in ft.		
	At Airport Levee	At Mellen Street	At Grand Mound
<b>100 YR Flood Event</b>			
<b>Comparison - Upper Retention to Baseline (Effect Outside Airport of One Retention Facility)</b>			
Flood - Upper Chehalis Retention Facility	175.61	173.02	142.90
<b>Increase / (Decrease)</b>	<b>(2.31)</b>	<b>(2.13)</b>	<b>(1.16)</b>
<b>Comparison - Upper Retention to Baseline with Levee (Effect Outside Airport of One Retention Facility and Raised Airport Levee)</b>			
Flood - Upper Chehalis Retention and Raised Airport Levee	175.94	173.30	143.03
<b>Increase / (Decrease)</b>	<b>(1.98)</b>	<b>(1.85)</b>	<b>(1.03)</b>
<b>2007 Flood Event</b>			
<b>Comparison - Upper Retention to Baseline (Effect Outside Airport of One Retention Facility)</b>			
Flood - Upper Chehalis Retention Facility	175.49	172.70	142.41
<b>Increase / (Decrease)</b>	<b>(3.42)</b>	<b>(3.11)</b>	<b>(1.88)</b>
<b>Comparison - Upper Retention to Baseline with Levee (Effect Outside Airport of One Retention Facility and Raised Airport Levee)</b>			
Flood - Upper Chehalis Retention and Raised Airport Levee	175.81	172.98	142.56
<b>Increase / (Decrease)</b>	<b>(3.10)</b>	<b>(2.83)</b>	<b>(1.73)</b>

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